

Application Number 10/731,869  
Responsive to Office Action mailed March 8, 2007

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**JUN 08 2007**

### **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions and listings of claims in the application.

#### **Listing of Claims:**

- Claim 1 (Previously Presented)** An implantable medical device comprising:  
a first module that includes control electronics within a first housing;  
a second module that includes a second housing; and  
an overmold that at least partially encapsulates the first and second housings,  
wherein the first and second housings are coupled, and the coupling of the first and second housings allows the housings to have a plurality of degrees of freedom of movement relative to each other.
- Claim 2 (Original)** The implantable medical device of claim 1, wherein the second module includes a power source within the second housing that provides power to the first module.
- Claim 3 (Original)** The implantable medical device of claim 2, wherein the power source is rechargeable.
- Claim 4 (Original)** The implantable medical device of claim 3, further comprising a recharge coil that inductively receives energy to recharge the power source.
- Claim 5 (Original)** The implantable medical device of claim 4, wherein the recharge coil is located within the overmold and substantially encircles the first and second modules.
- Claim 6 (Original)** The implantable medical device of claim 4, further comprising a third module that includes a third housing that houses the recharge coil.

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Claim 7 (Original) The implantable medical device of claim 6, wherein the overmold at least partially encapsulates the third module.

Claim 8 (Original) The implantable medical device of claim 7, wherein the first, second and third modules are positioned within the overmold in one of a triangular configuration and a linear configuration.

Claim 9 (Original) The implantable medical device of claim 6, wherein the third module is located outside of the overmold, the implantable medical device further comprising a flexible tether member that connects the third module to the overmold.

Claim 10 (Original) The implantable medical device of claim 9, wherein the flexible tether member comprises a helix.

Claim 11 (Original) The implantable medical device of claim 1, wherein the overmold completely encapsulates the first and second modules.

Claim 12 (Currently Amended) The implantable medical device of claim 1, wherein the overmold does not encapsulate a portion of each of the first and second modules, and each of the portions is adapted to be proximate to a cranium of a patient when the implantable medical device is adapted to be implanted on the cranium.

Claim 13 (Original) The implantable medical device of claim 1, wherein the overmold is flexible.

Claim 14 (Original) The implantable medical device of claim 1, wherein the overmold comprises silicone.

Claim 15 (Original) The implantable medical device of claim 1, wherein the overmold comprises at least two materials.

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**Claim 16 (Previously Presented)** The implantable medical device of claim 1, further comprising a flexible interconnect member to couple the first and second housings.

**Claim 17 (Original)** The implantable medical device of claim 16, wherein the interconnect member is flexible in a plurality of directions and allows the first and second modules to have a plurality of degrees of freedom of movement relative to each other.

**Claim 18 (Original)** The implantable medical device of claim 1, wherein each of the first and second housings are substantially cylindrical.

**Claim 19 (Original)** The implantable medical device of claim 1, further comprising:  
a lead connection module formed within the overmold to receive one of a lead that includes an electrode and a lead extension that is coupled to the lead; and  
a conductor that extends from the lead connection module to the first module, wherein the first housing comprises a hermetic feedthrough to receive the conductor and the conductor electrically couples the electrode to the first module.

**Claim 20 (Original)** The implantable medical device of claim 1, wherein the first module comprises a therapy delivery circuit to deliver electrical stimulation to a patient, and the control electronics control the delivery of electrical stimulation by the therapy delivery circuit.

**Claim 21 (Currently Amended)** The implantable medical device of claim 1, wherein the overmold is adapted to be shaped for implantation on a cranium of a patient.

**Claim 22 (Original)** The implantable medical device of claim 1, wherein the implantable medical device is flexible such that a shape of the implantable medical device is capable of being manipulated.

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Claim 23 (Previously Presented) An implantable medical device comprising:  
a first module that includes control electronics housed within a first housing;  
a second module that includes a power source that provides power to the first module housed within a second housing;  
an interconnect member that flexibly couples the first and second housings, wherein the interconnect member is flexible in a plurality of directions and allows the first and second modules to have a plurality of degrees of freedom of movement relative to each other; and  
a flexible overmold that at least partially encapsulates the first and second housings.

Claim 24 (Original) The implantable medical device of claim 23, wherein the power source is rechargeable.

Claim 25 (Original) The implantable medical device of claim 24, further comprising a recharge coil that inductively receives energy to recharge the power source.

Claim 26 (Original) The implantable medical device of claim 25, wherein the recharge coil is located within an overmold and substantially encircles the first and second modules.

Claim 27 (Original) The implantable medical device of claim 25, further comprising a third module that includes a third housing that houses the recharge coil.

Claim 28 (Original) The implantable medical device of claim 27, wherein an overmold at least partially encapsulates the third module.

Claim 29 (Original) The implantable medical device of claim 28, wherein the first, second and third modules are positioned within the overmold in one of a triangular configuration and a linear configuration in which the modules are positioned substantially along a common axis.

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Claim 30 (Previously Presented) The implantable medical device of claim 28, wherein the third module is located outside of the overmold, the implantable medical device further comprising a flexible tether member that connects the third module to the overmold.

Claim 31 (Original) The implantable medical device of claim 30, wherein the flexible tether member comprises a helix.

Claim 32 (Cancelled).

Claim 33 (Previously Presented) The implantable medical device of claim 23, wherein the interconnect member allows the first and second modules to have at least three degrees of freedom of movement relative to each other.

Claim 34 (Previously Presented) The implantable medical device of claim 23, wherein the interconnect member is hermetic and defines at least one lumen between the housings.

Claim 35 (Original) The implantable medical device of claim 23, wherein each of the first and second housings are substantially cylindrical.

Claim 36 (Original) The implantable medical device of claim 23, further comprising:  
a lead connection module formed within an overmold to receive one of a lead that includes an electrode and a lead extension that is coupled to the lead; and  
a conductor that extends from the lead connection module to the first module, wherein the first housing comprises a hermetic feedthrough to receive the conductor and the conductor electrically couples the electrode to the first module.

Claim 37 (Original) The implantable medical device of claim 23, wherein the first module comprises a therapy delivery circuit to deliver electrical stimulation to a patient, and the control electronics control the delivery of electrical stimulation by the therapy delivery circuit.

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**Claim 38 (Original)** The implantable medical device of claim 23, wherein the implantable medical device is flexible such that a shape of the implantable medical device is capable of being manipulated.

**Claim 39 (Previously Presented)** An implantable medical device comprising:  
a first module that includes control electronics housed within a first housing;  
a second module that includes a power source that provides power to the first module housed within a second housing; and  
a hermetic interconnect member that flexibly couples the first and second housings, wherein the interconnect member is flexible in a plurality of directions and allows the first and second modules to have a plurality of degrees of freedom of movement relative to each other.

**Claim 40 (Original)** The implantable medical device of claim 39, wherein the interconnect member allows the first and second modules to have at least three degrees of freedom of movement relative to each other.

**Claim 41 (Original)** The implantable medical device of claim 39, wherein the implantable medical device is flexible such that a shape of the implantable medical device is capable of being manipulated.

**Claim 42 (Original)** An implantable medical device comprising:  
a first module comprising control electronics and a therapy delivery circuit housed within a first housing, wherein the control electronics control delivery of stimulation by the therapy delivery circuit;  
a second module comprising a power source within a second housing that provides power to the control electronics and the therapy delivery circuit;  
an interconnect member that flexibly couples the first and second modules and includes a conductor for delivery power from the power source to the control electronics and the therapy delivery circuit; and  
a flexible overmold that at least partially encapsulates the first and second housings.

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Claim 43 (Original) The implantable medical device of claim 42, wherein the power source is rechargeable.

Claim 44 (Original) The implantable medical device of claim 43, further comprising a recharge coil that inductively receives energy to recharge the power source.

Claim 45 (Original) The implantable medical device of claim 44, wherein the recharge coil is located within the flexible overmold and substantially encircles the first and second modules.

Claim 46 (Original) The implantable medical device of claim 44, further comprising a third module that includes a third housing that houses the recharge coil.

Claim 47 (Original) The implantable medical device of claim 46, wherein the flexible overmold at least partially encapsulates the third module.

Claim 48 (Original) The implantable medical device of claim 47, wherein the first, second and third modules are positioned within the overmold in one of a triangular configuration and a linear configuration in which the modules are positioned substantially along a common axis.

Claim 49 (Original) The implantable medical device of claim 46, wherein the third module is located outside of the overmold, the implantable medical device further comprising a flexible tether member that connects the third module to the overmold.

Claim 50 (Original) The implantable medical device of claim 49, wherein the flexible tether member comprises a helix.

Claim 51 (Original) The implantable medical device of claim 42, wherein the interconnect member is flexible in a plurality of directions and allows the first and second modules to have a plurality of degrees of freedom of movement relative to each other.

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Claim 52 (Original) The implantable medical device of claim 42, further comprising:  
a lead connection module formed within the overmold to receive one of a lead that includes an electrode and a lead extension that is coupled to the lead; and  
a conductor that extends from the lead connection module to the first module, wherein the first housing comprises a hermetic feedthrough to receive the conductor and the conductor electrically couples the electrode to the first module.

Claim 53 (Currently Amended) The implantable medical device of claim 42, wherein the overmold is adapted to be shaped for implantation on a cranium of a patient.

Claim 54 (Original) The implantable medical device of claim 42, wherein the implantable medical device is flexible such that a shape of the implantable medical device is capable of being manipulated.

Claim 55 (Original) The implantable medical device of claim 42, wherein the therapy delivery circuit comprises a pulse generator.

Claim 56 (Currently Amended) An implantable medical device comprising:  
a first module comprising control electronics within a first housing and a rechargeable power source that provides power for the control electronics within a first housing;  
a second module comprising a recharge coil within a second housing, wherein the recharge coil that inductively receives energy to recharge the power source;  
a third module comprising a rechargeable power source within a third housing, wherein the rechargeable power source provides power for the control electronics;  
an overmold that at least partially encapsulates the first and third housings; and  
a flexible tether member that connects the first overmold and second housings.

Claim 57 (Original) The implantable medical device of claim 56, wherein the flexible tether member comprises a helix.



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**Claim 58 (New):** The implantable medical device of claim 1, wherein at least one of the first housing or the second housing comprises a hermetic housing.

**Claim 59 (New):** The implantable medical device of claim 23, wherein at least one of the first housing or the second housing comprises a hermetic housing.

**Claim 60 (New):** The implantable medical device of claim 42, wherein at least one of the first housing or the second housing comprises a hermetic housing.

**Claim 61 (New):** The implantable medical device of claim 56, wherein at least one of the first housing or the third housing comprises a hermetic housing.